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(54) Title: COMPOSITIONS AND METHODS FOR EVALUATING AND DESIGNING NUCLEAR RECEPTOR LIGANDS THAT MODULATE CO-REGULATOR AFFINITY

(57) Abstract: Isolated corepressor peptides derived from a nuclear receptor interacting motif of corepressor Nuclear Receptor Corepressor (NCoR) or Silencing Mediator of Retinoid and Thyroid receptors (SMRT) are provided which binds to nuclear receptor ligand binding domains. Methods of using these peptides to evaluating selectivity of a ligand for a nuclear receptor subtype and quantitatively profiling selectivity of a test compound for a nuclear receptor are also provided.



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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PU4825WO	FOR FURTHER ACTION	see Notificat (Form PCT/ below.	tion of Transmittal of International Search Report ISA/220) as well as, where applicable, item 5	
International application No. PCT/US03/11055	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year) 12 April 2002 (12.04.2002)	
Applicant SMITHKLINE BEECHAM CORPORATION				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.				
This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.				
1. Basis of the Report a. With regard to the language, language in which it was filed the international search wa Authority (Rule 23.1(b)). b. With regard to any nucleotid search was carried out on the contained in the internation filed together with the interfurnished subsequently to the statement that the subsequently to the statement that the informational application as the statement that the information is lacking the statement of the statement that the information is lacking the statement of the statement that the information is lacking the statement of the statement o	the international search was carried, unless otherwise indicated under a carried out on the basis of a transle and/or amino acid sequence discipated basis of the sequence listing: and application in written form. International application in computer reaches Authority in written form. This Authority in computer readable for the sequence filed has been furnished. Internation recorded in computer readable for the sequence filed has been furnished. Internation recorded in computer readable for the sequence filed has been furnished.	out on the this item. ation of the idesed in the idea idea in the idea idea idea idea idea idea idea ide	basis of the international application in the international application furnished to this international application, the international	
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5. With regard to the abstract, the text is approved as subn the text has been established may, within one month from Authority.	· • • • • • • • • • • • • • • • • • • •	s Authority a ional search	as it appears in Box III. The applicant report, submit comments to this	
6. The figure of the drawings to be put as suggested by the applicant because the applicant failed because this figure better checkens. Form PCT/ISA/210 (first sheet) (July 1998)	nt. to suggest a figure. naracterizes the invention.	lo	None of the figures	

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07K 14/00; G01N 33/53 US CL : 435/7.8; 530/300					
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/7.8; 530/300					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category * Citation of document, with indication, where		Relevant to claim No.			
X WO 01/75443 A2 (GLAXO GROUP LIMITED) 1 22, and 25.	1 October 2001 (11.10.2001), pages 6,	1-11			
Further documents are listed in the continuation of Box C.	See patent family annex.				
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance.	"T" later document published after the int priority date and not in conflict with understand the principle or theory un	the application but cited to			
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"P" document published prior to the international filing date but later than the		ì			
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Continuation of B. FIELDS SEARCHED Item 3: BRS, GENESEQ, PIR, SWISSPROT, SPTREMBL			
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search terms: nuclear receptor, corepressor, NCOR, SMRT, binding			
search terms. Indicat receptor, corepressor, NCOR, SWR1, binding			
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